

## **ABSTRACT**

Methods and algorithms for quality control in gene expression profiling on DNA microarray technology are disclosed including methods and algorithms for assessing quality control of the printing of a DNA microarray, the preparation of an RNA sample, the labeling of probes, the hybridization between a DNA microarray and probes, the result of washing procedures, the result of scanning procedures, and for quantifying the gene expression data produced by imaging the hybridized DNA microarray.